

Prediction of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$



S = power density

P = power input to the antenna

G = antenna gain

R = distance

Conducted output power:	36	(dBm) EIRP
	3981	(mW) EIRP
	4	(W) EIRP
Distance:	20	(cm)
Duty Cycle:	100	(%)
Frequency:	2400	(MHz)
MPE Limit:	1	(mW/cm ²)
Power density:	0.79	(mW/cm ²)
	7.9	(W/m ²)
Margin	1.0	(dB)